



MAPEI

Ultrabond Eco 185



Very low VOC (volatile organic compound) adhesive in water dispersion with high initial tack for textile floor and wall coverings



WHERE TO USE

Interior installations of tufted and woven carpet, needlepunch and felt-backed vinyl.

Some application examples

Ultrabond Eco 185 is used to install:

- natural jute-back or polypropylene jute (Action Bac®) carpet, tufted latex and latex-back carpet;
- needlepunch carpet with natural, latex or latex-foam back;
- needlepunch and carpet wall coverings

ON

all normal absorbent and moisture stable substrates used in construction.

TECHNICAL CHARACTERISTICS

Ultrabond Eco 185 is a solvent free synthetic polymer-based adhesive in water dispersion, for application in a single coat.

Ultrabond Eco 185 is a light beige-coloured ready to use paste and is not inflammable.

The VOC content of **Ultrabond Eco 185** is practically zero, therefore it is not harmful to the health of the installer nor to those using the area.

Ultrabond Eco 185 is easily trowelled and has high

initial tack. It has an open time of approx. 30 min. at +23°C and 50% R.H.

Once completely dry, **Ultrabond Eco 185's** bonding strength makes it perfect for carpet installations with heavy foot and wheeled chair traffic.

RECOMMENDATIONS

- Do not use for the installation of PVC or carpet with PVC foam back.
- Do not use at temperatures below +15°C or above +35°C.
- Do not use on damp substrates or those subject to rising damp.

APPLICATION PROCEDURE

Preparing the substrate

Substrates must be dry, absorbent, level, sound, mechanically strong and free of cracks, dust, loose particles, grease, oils, paint, wax, rust, traces of gypsum or other materials which may interfere with bonding.

Check for the presence of moisture throughout the whole thickness of the screed using a carbide or electronic hygrometer, remembering that the latter only gives approximate values. It is essential to make sure there is no presence of rising damp.

The maximum moisture content must be as follows: 2.5% to 3% for cement based substrates, 0.5% for gypsum or anhydrite substrates.



Ultrabond Eco 185



Carpet laid in the
hospitality suite in a
sports arena - Ice
Palace - Germany



Example of carpet
laid in a Casino -
Schaffhausen
Casino - Switzerland

TECHNICAL DATA (typical values)	
PRODUCT IDENTIFICATION	
Consistency:	creamy paste
Colour:	light beige
Density (g/cm³):	1.15
pH:	9.5
Dry solids content (%):	68
Brookfield viscosity (mPa·s):	70,000 (C rotor - 5 RPM)
Storage:	12 months in original sealed packaging. Avoid prolonged exposure to frost
Hazard classification according to EC 99/45:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packing and Safety Data Sheet
EMICODE:	EC1 - very low emission
Customs class:	3506 91 00
APPLICATION DATA	
Application temperature range:	from +15°C to +35°C
Waiting time at +23°C - 50% R.H.:	from 0 to 10 minutes
Open time at +23°C - 50% R.H.:	maximum 30 minutes
Set to light foot traffic at +23°C - 50% R.H.:	after approx. 2 to 3 hours
Ready for use:	after approx. 24 hours
FINAL PERFORMANCE DATA	
Resistance to moisture:	good
Resistance to ageing:	excellent
Resistance to solvents and oils:	fair
Resistance to acids and alkali:	good
Resistance to wheeled chair stress:	good
Underfloor heating systems:	suitable
PEEL adhesion at 90° test according to EN 1372 (N/mm):	
- Action-Bac® carpet:	> 1.5
- needlepunch:	> 1.8

Unbonded screeds over light-weight concrete or over insulation layer or screeds laid directly onto earth must be provided with a vapour barrier to prevent rising damp.

To repair cracks in the substrate, consolidate screeds, form fast-drying screeds and level uneven screeds, it is recommended to refer to the section in the MAPEI catalogue concerning the preparation of substrates or contact the Technical Advisory Department.

Acclimatisation

Before installing, make sure that the floor or wall covering and the substrate are acclimatised to the recommended temperature. Floor and wall coverings must be removed from the packaging several hours before installation. The sheets must be freely laid or at least loosened from their rolls to allow acclimatisation and the reduction of tension produced by the packaging.

Follow the manufacturer's instructions for the method of installation.

Spreading the adhesive

Ultrabond Eco 185 is applied to the substrate with a notched trowel in sufficient quantity to wet the back of the floor covering completely. Only apply the adhesive to as large an area as can be covered with flooring within 30 minutes.

Installing the floor covering

Follow the manufacturer's instructions for the method of installation.

The waiting time of **Ultrabond Eco 185** varies according to the absorbency of the substrate and environmental conditions (temperature and humidity) from 0 to 10 minutes.

Installation of the flooring, however, must take place within the open time of **Ultrabond Eco 185** (approx. 30 minutes), that is, when the adhesive is transferred onto the back of the flooring.

Non-porous materials or materials that still have irregularities from being rolled or folded will have a better adhesion if laid at the end of the waiting time.

The surface must be pressed with a wooden trowel or roller immediately after installing the flooring, from the centre towards the edges, to provide complete contact and the elimination of any air bubbles.

Cleaning

While still wet, **Ultrabond Eco 185** can be cleaned from floors or wall coverings, tools, hands and clothing with water. When dry, use alcohol, or **Pulicol**.

CONSUMPTION

Consumption varies depending on flatness of the substrate and the backing of the floor covering (and therefore on the type of trowel used), from 0.3 to 0.45 kg/m².

PACKAGING

Ultrabond Eco 185 is available in 16 kg buckets.

STORAGE

Under normal conditions and in original unopened packaging **Ultrabond Eco 185** is stable for at least 12 months. Avoid prolonged exposure to frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultrabond Eco 185 is not considered a dangerous substance according to current standards and regulations regarding the classification of substances. The usual precautions taken when handling chemical products are recommended.

The Safety Data Sheet is available upon request.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this data sheet correspond to the best of our knowledge and experience, all the above information must, in every case be taken as merely indicative and subject to confirmation after long-term practical applications; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.



This symbol is used to identify Mapei products which do not contain solvents, and which give off a low level of volatile organic compounds (VOC); proof of MAPEI's commitment in safeguarding the environment.



This symbol is used to identify MAPEI products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegetwerkstoffe e.V.), an international organisation for controlling the level of emissions from products used for floors.

**All relevant references
of the product are available
upon request**



Example of carpet laid
in a hotel corridor -
Holiday Inn - England

Ultrabond Eco 185

